

Work Order ID 145269

Thursday, May 05, 2016 9:27:32 AM

145269

Page 1

Item ID: D2529 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Washer
 Start Date: 5/6/2016 Start Qty: 250.00 ***250*** Cust Item ID:
 Required Date: 5/20/2016 Req'd Qty: 250.00 ***250*** Customer:
 Reference:

Approvals: Process Plan: MLG Date: MAY 05 2016 Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2529	Rev E								
100	PURCHASING	0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>32302</u> Possible Supplier: Acklands, P/N: PFS FW14S1								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	5.00							
Packaging	Ensure Material Release Note is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

250 MAY 09 2016 DAS 13 9-49

250 SP 16-05-13

250 DAS 38 9-49 MAY 16 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

Work Order ID 145269

Thursday, May 05, 2016 9:27:32 AM

145269

Page 2

Item ID: D2529

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Washer

Start Date: 5/6/2016 Start Qty: 250.00

250

Cust Item ID:

Required Date: 5/20/2016 Req'd Qty: 250.00

250

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>Stock</u>	0.00							
130						<u>250</u>	<u>MAY 17 2016</u>		<u>DAS</u>
Packaging	Memo	2.50							<u>9-89</u>
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	25.00							<u>MCS MAY 17 2016</u>
Quality Control									

MCS MAY 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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145269

D2529

Required Date: 5/20/2016

Required Qty: 250.00

EC

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

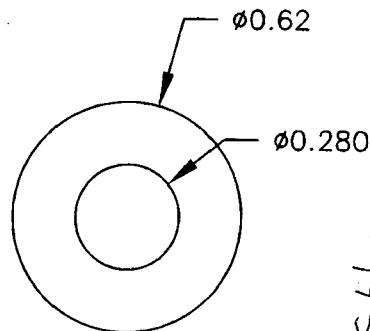
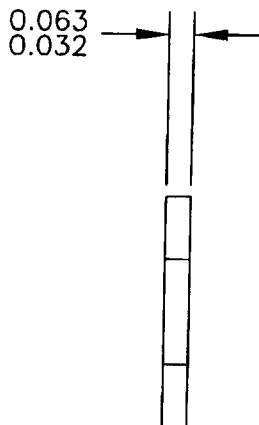
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

DART

DESIGN <i>PH</i>	DRAWN BY <i>PH</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>th</i>	APPROVED <i>th</i>	DRAWING NO. D2529	REV. E SHEET 1 OF 1
DATE 07.04.17		TITLE WASHER	SCALE 2:1
A	95.12.22	NEW ISSUE	
B	96.08:28	ADD SS	
C	97.03:24	RE-DESIGN, CHANGE MATERIAL SPEC.	
D	97.10.14	CHANGE THICKNESS (TSR A144)	
E	07.04.17	UPDATE DRAWING NOTES	

RELEASED
07.06.28 *th*

175269.MCS
100505
NOT COPY
RETURN TO
ENGINEERING
CONTROL COPY
DART AEROSPACE LTD
HAWKESBURY, ONTARIO
CANADA

D2529 WASHER

- 1) MATERIAL: AISI 303 OR AISI 304/316 STAINLESS STEEL
(REF DART MATERIAL SPEC M303R OR M304R)
- 2) POSSIBLE SUPPLIER: ACKLANDS, P/N: PFS FW14S1
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES 0.005 TO 0.010 MAX

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32302

Purchase Order Date 5/9/2016 10:15:27 AM
PO Print Date 5/9/2016

Page Number 1 of 2

Order From :

ACKLANDS - GRAINGER INC.
P.O. BOX 2970
WINNIPEG, MB R3C 4B5
CA

VC-ACK001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

MAY 09 2016

Contact Name
Vendor Phone 613 632 2739

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FOB - (Free on Board)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	PFS-FW14S1 AS PER DWG D2529 REV. E B145269	WASHER	5/16/2016 Yes 5/16/2016		250.00 Each	\$0.33	\$83.23
Line Total:							\$83.22
5	5/16WC	Washer	5/16/2016 Yes 5/16/2016	FN	50.00 Each	\$0.03	\$1.69
Line Total:							\$1.69

ACKLANDS P/N: FPB U51205.031.0001

Note:

5/9/2016



ACKLANDS-GRAINGER INC.
4475 GRIFFITH

SAINT-LAURENT QC H4T 2A2
(514) 332-6100
www.acklandsgrainger.com

Acklands-Grainger tax ID / N° taxe :
88970-1272/TVQ# 1019602903

Customer tax ID / N° taxe du client:

Contact / Contact:
LAVOIE (613)632-9577

PACKING SLIP / BORDEREAU D'EXPÉDITION

Customer PO / Du client PO:



32302

Sold to / Vendu a: 886364568
DART AEROSPACE LTD:

DART AEROSPACE LTD VMI
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7 CA

Ship to / Adresse d'expédition: 886364568

DART AEROSPACE LTD
DART AEROSPACE LTD VMI
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7 CA

Delivery / Livraison:



6324083408

Shipping conditions /
Conditions d'expédition:
Ship

Incoterms / Incoterms:

Free on board,ORIGIN

Payment terms / Conditions de
paiement:
Net 30 days after invoice date

Account manager / Directeur des
comptes:
350369

Order /
Commande
1261997262

Delivery date / Date d'envoi:
05/10/2016

Order date / Date de la
commande:
05/10/2016

Requisitioner / Demandeur:

Freight terms / Modalités de fret:
Prepaid and Add

Carrier / Transporteur:

Notes / Remarques:

Line / Ligne	PO line / Ligne de BC	Material / Matériau	Customer material / Matériau du client	Description / Description	Ship quantity / Quantité	Order quantity / Quantité commandée	UoM / Unité de mesure	Unit price / Prix unitaire	Per / Par	Extended price / Prix total
000010		FPBU51205.025.0001		FLAT WASHER SS304 0.281X0.625	250.000	250.000	EA	2.96	100	7.40
000020		FPBU51205.031.0001		FLAT WASHER SS304 0.344X0.688	50.000	50.000	EA	3.38	100	1.69

Freight / Fret

0.00

00:00:00

Subtotal / Total partiel

9.09

Received by / Recu par:

PST/QST / TVP/TVQ

0.00

HST/GST / TPS/TVH

1.18

Order total / Total de la commande

10.27

886364568-05-13